

UNITED STATES DISTRICT COURT
FOR THE NORTHERN DISTRICT OF CALIFORNIA

OAKLAND DIVISION

LAS VIRGENES MUNICIPAL WATER
DISTRICT-TRIUNFO SANITATION
DISTRICT, a joint powers authority,

Plaintiff.

V.

12 GINA McCARTHY, Administrator of
13 the United States ENVIRONMENTAL
14 PROTECTION AGENCY, and DOES
1-10, inclusive,

15 Defendants,

**16 LOS ANGELES WATERKEEPER,
HEAL THE BAY, and NATURAL
RESOURCES DEFENSE COUNCIL.**

18 | Intervenors.

Case No: C 14-01392 SBA

Related to
Case No: C 98-04825 SBA

ORDER ON CROSS-MOTIONS FOR SUMMARY JUDGMENT

20 In September 2013, in the United States District Court for the Central District of
21 California, Plaintiff Las Virgenes Municipal Water District-Triunfo Sanitation District
22 (“Plaintiff”) brought the instant declaratory and injunctive relief action against Defendant
23 Gina McCarthy (“Defendant”), Administrator of the United States Environmental
24 Protection Agency (the “EPA”). Dkt. 1. Plaintiff challenges the EPA’s promulgation of
25 the “Malibu Creek and Lagoon Total Maximum Daily Load for Sedimentation and
26 Nutrients to Address Benthic Community Impairments” (the “2013 TMDL” or “Final
27 TMDL”), which identifies the maximum quantities of nitrogen and phosphorous that
28 Malibu Creek can receive without violating applicable water quality standards.

1 In March 2014, environmental groups Los Angeles Waterkeeper, Heal the Bay, and
 2 Natural Resources Defense Council (collectively “Intervenors”) intervened. Dkt. 14, 29.
 3 Thereafter, the United States District Court for the Central District of California transferred
 4 the action to this Court. Dkt. 33.

5 Presently before the Court are cross-motions for summary judgment filed by
 6 Plaintiff, Defendant, and Intervenors. Dkt. 65, 74, 75. Having read and considered the
 7 papers filed in connection with this matter and being fully informed, the Court hereby
 8 DENIES Plaintiff’s motion, and GRANTS Defendant and Intervenors’ respective motions,
 9 for the reasons stated below. The Court, in its discretion, finds this matter suitable for
 10 resolution without oral argument. See Fed. R. Civ. Proc. 78(b); N.D. Cal. Civ. L.R. 7-1(b).

11 **I. BACKGROUND**

12 **A. THE PARTIES**

13 Defendant is the current Administrator of the EPA, a federal agency charged with
 14 the administration and enforcement of the Clean Water Act, in accordance with the specific
 15 delegations of authority from Congress contained in that statute. Compl. ¶ 10, Dkt. 1. On
 16 July 2, 2013, the EPA promulgated the Final TMDL that is the subject of this suit. Id. ¶ 4.

17 Plaintiff owns and operates the Tapia Wastewater Reclamation Facility (the
 18 “Facility”). Compl. ¶ 5. The Facility discharges highly treated effluent into Malibu Creek
 19 under a permit issued by the Los Angeles Regional Water Quality Control Board (the “LA
 20 Regional Board”). Id. According to Plaintiff, the Regional Board will incorporate the
 21 strictures of the Final TMDL into the Facility’s next permit, causing Plaintiff to incur an
 22 estimated \$180 million in compliance costs. Id. ¶ 6.

23 Intervenors are environmental groups whose members use and enjoy Malibu Creek.
 24 Mem. in Supp. of Mot. to Intervene at 1, Dkt. 15.

25 **B. STATUTORY FRAMEWORK**

26 The Clean Water Act (the “CWA” or the “Act”) “anticipates a partnership between
 27 the States and the Federal Government, animated by a shared objective: ‘to restore and
 28 maintain the chemical, physical, and biological integrity of the Nation’s waters.’”

1 Arkansas v. Oklahoma, 503 U.S. 91, 101 (1992) (quoting 33 U.S.C. § 1251(a)). In order to
 2 attain this objective, the Act provides two methods for controlling water pollution: effluent
 3 limitations and water quality standards. *Id.*; see also City of Arcadia v. EPA, 411 F.3d
 4 1103, 1105 (9th Cir. 2005). Effluent limitations “restrict the quantities, rates, and
 5 concentrations” of specific pollutants that may be discharged from point sources into
 6 waterways. Arkansas, 508 U.S. at 101 (citing 33 U.S.C. §§ 1311, 1314); see also 33 U.S.C.
 7 § 1362(11). Point sources are “any discernible, confined and discrete conveyance . . . from
 8 which pollutants are or may be discharged,” such as any pipe, ditch, channel, or tunnel. 33
 9 U.S.C. § 1362(14). “Water quality standards set the permissible level of pollution in a
 10 specific body of water without direct regulation of the individual sources of pollution.”
 11 City of Arcadia, 411 F.3d at 1105. “These standards supplement effluent limitations ‘so
 12 that numerous point sources, despite compliance with effluent limitations, may be further
 13 regulated to prevent water quality from falling below acceptable levels.’ [Citation.]”
 14 Arkansas, 508 U.S. at 101.

15 Once water quality standards are established, a State must identify “water quality
 16 limited segments” or “WQLSs”—waters within its boundaries for which effluent limitations
 17 are not sufficiently stringent to meet applicable standards. 33 U.S.C. § 1313(d)(1)(A); San
 18 Francisco BayKeeper v. Whitman, 297 F.3d 877, 880 (9th Cir. 2002). For each pollutant of
 19 concern affecting a WQLS, i.e., each waterbody-pollutant pairing, the State must develop a
 20 “total maximum daily load” (“TMDL”). 33 U.S.C. § 1313(d)(1)(C); BayKeeper, 297 F.3d
 21 at 880. A TMDL is “the maximum quantity of a pollutant the water body can receive on a
 22 daily basis without violating the water quality standard.” BayKeeper, 297 F.3d at 880.
 23 “States may then institute whatever additional cleanup actions are necessary, which can
 24 include further controls on point and nonpoint pollution sources.” *Id.*

25 Under the CWA, a State must submit WQLSs and TMDLs to the EPA for approval.
 26 33 U.S.C. § 1313(d)(2). The EPA must approve or disapprove a State’s submission,
 27 commonly referred to as a “303(d) list,” within 30 days. 33 U.S.C. § 1313 (d)(2); City of
 28 Arcadia, 411 F.3d at 1105. If the EPA disapproves a State’s 303(d) list, the EPA must

1 identify such WQLSs and establish such TMDLs as it deems necessary to implement
 2 applicable water quality standards. 33 U.S.C. § 1313(d)(2); City of Arcadia, 411 F.3d at
 3 1105. “The EPA is also under a mandatory duty to establish a TMDL when a State fails
 4 over a long period of time to submit a TMDL; this ‘prolonged’ failure can amount to the
 5 ‘constructive submission’ of an inadequate TMDL, thus triggering the EPA’s duty to issue
 6 its own.” City of Arcadia, 411 F.3d at 1105-06 (quoting BayKeeper, 297 F.3d at 880-87).

7 **C. THE HEAL THE BAY ACTION**

8 By 1998, California had identified hundreds of waterbody-pollutant pairings
 9 requiring TMDLs in the Los Angeles Region. AR 013054. In December of that year,
 10 certain environmental groups--now Intervenors in the instant action--filed suit for
 11 declaratory and injunctive relief, alleging among other things that the EPA violated the
 12 CWA and the APA by failing to establish TMDLs for pairings under the jurisdiction of the
 13 LA Regional Board. See Compl., Dkt.1, Heal the Bay v. McCarthy, No. C 98-4825 SBA
 14 (“Heal the Bay”).¹ The complaint alleged that, with respect to the Los Angeles Region,
 15 California had continually failed to submit TMDLs since June 26, 1979, when the first such
 16 submission had been due. Id. ¶¶ 18-19. The complaint further alleged that the EPA had a
 17 mandatory duty to disapprove California’s constructive submission of no TMDLs and to
 18 itself promulgate the same. Id. ¶ 20.

19 On March 23, 1999, the Court entered an Amended Consent Decree (the “Consent
 20 Decree”) in which the EPA agreed to “ensure that a TMDL [would] be completed for each
 21 and every [listed] pairing of a WQLS and an associated pollutant in the Los Angeles
 22 Region.” Consent J. ¶ 3, Dkt. 25, Heal the Bay. According to a schedule that concluded
 23 March 24, 2012, the Consent Decree set specific TMDL deadlines for the listed waterway-
 24 and-pollutant pairings. Id. For each pairing, the EPA was required to (a) approve a state-
 25 submitted TMDL by a specified date or, (b) establish a TMDL within one year of that date,
 26 unless California submitted and the EPA approved a TMDL within the one-year backstop

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¹ The Court related the instant action to Heal the Bay. See Dkt. 38.

1 period. *Id.* Upon entry of the Consent Decree, the Court closed the Heal the Bay action,
 2 but retained jurisdiction to construe, implement, modify, and enforce its terms.

3 As is pertinent here, the Consent Decree set a deadline of March 24, 2002 (or one
 4 year thereafter) for a TMDL addressing “nutrients (algae)” and “unnatural scum/foam” in
 5 Malibu Creek. Consent J., Attach. 2-3, Dkt. 25, Heal the Bay. On March 21, 2003, the
 6 EPA promulgated a TDML that set seasonal numeric targets for the pollutants nitrogen and
 7 phosphorous in Malibu Creek (i.e., the “2003 TMDL”). See AR 000028, 013069. The LA
 8 Regional Board and EPA identified these nutrients as the pollutants primarily responsible
 9 for excessive algae and scum. AR 013060-61. In response to the 2003 TMDL, the LA
 10 Regional Board modified the permit for Plaintiff’s Facility, implementing limitations upon
 11 the discharge of nitrogen and phosphorous. Compl. ¶ 28.²

12 In 2008, upon the LA Regional Board’s recommendation, California updated its
 13 303(d) list to pair Malibu Creek and benthic-macroinvertebrate (“BMI”) bioassessments.
 14 AR 001309-16. On April 12, 2010, the EPA notified interested parties that the Heal the
 15 Bay litigants had reached an agreement to modify the Consent Decree. AR 001428-31. In
 16 pertinent part, the notice proposed two new pairings for Malibu Creek--“[BMI]
 17 bioassessments” and “sedimentation/siltation”--for which TMDLs would be due by March
 18 24, 2013. AR 001430.³ On September 2, 2010, the Court entered an order approving a
 19 stipulation to modify the Consent Decree (the “Modification”). Stipulation to Modify Am.
 20 Consent Decree and Order, Dkt. 43, Heal the Bay.

21 On December 12, 2012, the EPA issued a public notice soliciting comment on a
 22 draft TMDL to address sedimentation and BMI impairment in Malibu Creek. AR 001249.
 23 The EPA provided notice of its intent to re-evaluate the 2003 TMDL and to “revise the total
 24 nitrogen and total phosphorus concentration based allocations.” *Id.* On January 25, 2013,
 25 Plaintiff submitted a 9-page letter and 66 pages of “technical comments” regarding the draft

26 ² The CWA requires a National Pollution Discharge Elimination System (“NPDES”)
 27 permit for any point source discharge of a pollutant. See 33 U.S.C. §§ 1311, 1342.

28 ³ By stipulation, the litigants subsequently extended the deadline to July 2, 2013.

1 TMDL. AR 000423-96.⁴ The EPA reviewed and responded to all comments, and in some
 2 instances modified the Final TMDL. AR 000834-957. Thereafter, the EPA promulgated
 3 the 2013 TMDL that is the subject of this suit, setting revised seasonal numeric targets for
 4 nitrogen and phosphorus. AR 000001-251.

5 In or about July 2013, the Consent Decree terminated by its own terms. See Consent
 6 J. ¶ 39, Dkt. 25, Heal the Bay (“The Consent Decree shall terminate after fulfillment of all
 7 the obligations of EPA under the Consent Decree.”) In October 2013, the Heal the Bay
 8 litigants filed notice of the termination. Notice of Termination of Am. Consent Decree,
 9 Dkt. 69, Heal the Bay.⁵

10 **D. THE INSTANT ACTION**

11 On September 19, 2013, Plaintiff filed the instant declaratory and injunctive relief
 12 action to obtain an order requiring Defendant to “withdraw and cancel” the 2013 TMDL.
 13 Compl. ¶ 3. Specifically, Plaintiff alleges: (1) the EPA lacked authority to promulgate the
 14 2013 TMDL; (2) the 2013 TMDL is an improper revision of the 2003 TMDL; (3) the EPA
 15 failed to allow sufficient public comment on the 2013 TMDL; (4) the 2013 TMDL
 16 constitutes an abuse of discretion because “no impairment was paired with Malibu Creek”;
 17 (5) the 2013 TMDL constitutes an abuse of discretion because it “does not prevent
 18 impairment of a beneficial use”; (6) the 2013 TMDL constitutes an abuse of discretion
 19 because natural nutrient sources “cannot be controlled”; (7) the 2013 TMDL constitutes an
 20 abuse of discretion because it uses “unhealthy [BMI] community” as an “‘indicator’ of an

21 ⁴ Additionally, in March 2013, Plaintiff filed a motion to intervene in the Heal the
 22 Bay action. Pet. to Intervene, Dkt. 49, Heal the Bay. Plaintiff argued that the newly
 23 proposed Malibu Creek TMDL “w[ould] directly affect the conditions imposed on
 24 [Plaintiff] in the NPDES permit process.” Id. at 14. The Court denied Plaintiff’s motion,
 reasoning, *inter alia*, that Plaintiff had an alternative means of protecting its interests,
 i.e., filing a separate action. Order Den. Mot. to Intervene, Dkt. 72, Heal the Bay.

25 ⁵ In October 2014, Plaintiff filed a motion to dismiss the Heal the Bay action under
 26 Federal Rule of Civil Procedure 12(h)(3). Mot. re Subject-Matter Jurisdiction, Dkt. 77,
Heal the Bay. The Court construed the motion as one to vacate the judgment under Rule
 27 60(b)(4), and denied the same. Order Den. Mot. Under Rule 12(h)(3), Dkt 85, Heal the
Bay. The Court found the motion moot because the Heal the Bay action was closed in 1999
 28 and the Consent Decree terminated by its own terms in or about July 2013. Id. The Court
 further found that Plaintiff lacked standing to move to vacate the Consent Decree. Id.

1 unhealthy creek system”; (8) the 2013 TMDL constitutes an abuse of discretion because it
 2 “fails to disclose any reason for making the protection of [BMI] a high priority”; and (9) the
 3 2013 TMDL violates the CWA because “its purpose is to enhance Malibu Creek.”

4 In April 2015, Plaintiff filed the instant motion for summary judgment. In its
 5 summary judgment motion, Plaintiff argues: (1) the EPA lacked authority to promulgate the
 6 2013 TMDL; (2) the 2013 TMDL is an improper revision of the 2003 TMDL; (3) the 2013
 7 TMDL failed to address economic impact; (4) the 2013 TMDL is arbitrary and capricious
 8 because it (a) fails to quantify naturally occurring nitrogen and phosphorous, (b) promotes
 9 invasive species of BMI, and (c) utilizes an improper computer model to quantify BMI
 10 impairment; and (5) the EPA failed to allow sufficient public comment on the 2013 TMDL.
 11 Dkt. 65.⁶ After Plaintiff filed the instant motion for summary judgment, Defendant and
 12 Intervenors filed their respective cross-motions for summary judgment. Dkt. 74, 75.

13 **II. LEGAL STANDARD**

14 “[S]ummary judgment is appropriate where there ‘is no genuine issue as to any
 15 material fact’ and the moving party is ‘entitled to a judgment as a matter of law.’”
 16 Alabama v. North Carolina, 560 U.S. 330, 344 (2010) (quoting Fed. R. Civ. Proc. 56(c)).
 17 When reviewing final agency action, “there are no disputed facts that the district court must
 18 resolve.” Occidental Eng’g Co. v. INS, 753 F.2d 766, 769 (9th Cir. 1985). Instead, “the
 19 function of the district court is to determine whether or not as a matter of law the evidence
 20 in the administrative record permitted the agency to make the decision it did.” Id. In other
 21 words, the court decides whether the agency’s action “passes muster under the appropriate
 22 APA standard of review.” Ranchers Cattlemen Action Legal Fund United Stockgrowers of
 23 Am. v. U.S. Dep’t of Agr., 499 F.3d 1108, 1115 (9th Cir. 2007).

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6 As demonstrated by the above recitation of Plaintiff’s contentions, the allegations set forth in Plaintiff’s complaint and the arguments raised in Plaintiff’s summary judgment motion differ. In its summary judgment motion, Plaintiff abandons certain causes of action alleged in its complaint, raises new arguments not alleged in its complaint, and modifies the bases underlying some of its claims. As necessary, the Court will discuss the divergence between Plaintiff’s pleading and moving papers.

Under the Administrative Procedure Act (“APA”), a reviewing court upholds an agency’s substantive determination unless it is “arbitrary, capricious, an abuse of discretion, or otherwise not in accordance with the law.” 5 U.S.C. § 706(2)(A). This deferential standard requires that an agency “‘examine the relevant data and articulate a satisfactory explanation for its action.’” FCC v. Fox Television Stations, Inc., 556 U.S. 502, 513 (2009) (quoting Motor Vehicle Mfrs. Ass’n v. State Farm Mut. Auto. Ins. Co., 463 U.S. 29, 43 (1983)). Agency action is subject to reversal if the agency has “relied on factors which Congress has not intended it to consider, entirely failed to consider an important aspect of the problem, [or] offered an explanation for its decision that runs counter to the evidence before the agency, or is so implausible that it could not be ascribed to a difference in view of the product of agency expertise.” Motor Vehicle Mfrs. Ass’n, 463 U.S. at 43. Although the court’s inquiry must be “‘searching and careful,’ . . . ‘the ultimate standard of review is a narrow one.’ [Citation.]” Marsh v. Oregon Nat. Res. Council, 490 U.S. 360, 378 (1989)).

A reviewing court may also “hold unlawful and set aside agency action, findings, and conclusions” that are “without observance of procedure required by law,” or “in excess of statutory jurisdiction, authority, or limitations, or short of statutory right.” 5 U.S.C. § 706(2)(C), (D). Unlike substantive challenges, “review of an agency’s procedural compliance is exacting, yet limited.” Kern Cty. Farm Bureau v. Allen, 450 F.3d 1072, 1076 (9th Cir. 2006). “We review de novo but are limited to ensuring that “statutorily prescribed procedures have been followed.”” [Citations].” Id. “Further, we determine ‘the adequacy of the agency’s notice and comment procedure, without deferring to an agency’s own opinion of the . . . opportunities it provided.’ [Citation.]” Id.

III. **DISCUSSION**

A. **MOTION TO STRIKE EXTRA-RECORD EVIDENCE**

The EPA filed notice of lodging of the Administrative Record (“AR”), Dkt. 56, and notice of lodging of a Supplement to the Administrative Record (“AR Supp.”), Dkt. 63. When reviewing agency action under the APA, a court generally restricts its review to the administrative record. Ctr. for Biological Diversity v. U.S. Fish & Wildlife Serv., 450 F.3d

1 930, 943 (9th Cir. 2006). Although courts have recognized a few exceptions to this general
 2 rule, the exceptions are “narrowly construed,” and “the party seeking to admit extra-record
 3 evidence initially bears the burden of demonstrating that a relevant exception applies.” San
 4 Luis & Delta-Mendota Water Auth. v. Locke, 776 F.3d 971, 992-993 (9th Cir. 2014).

5 Plaintiff submitted three declarations in support of its motion for summary
 6 judgment. See Decl. of David W. Pedersen, Dkt. 66, Decl. of David Lippman, Dkt. 67, and
 7 Decl. of Janice Dougall, Dkt. 68. Plaintiff did not file a concomitant motion to augment the
 8 administrative record. Intervenors move to strike Plaintiff’s extra-record evidence or, in the
 9 alternative, for leave to submit responsive extra-record evidence. Int.’s Mot. to Strike
 10 Extra-Record Evidence, Dkt. 76. Plaintiff filed a non-opposition to the motion, in which it
 11 explicitly agrees “to withdraw the previously submitted declarations.” Pl.’s Reply to Ints.’
 12 Mot. to Strike Decl. in Supp., Dkt. 80 at p. 2. The Court deems the declarations so
 13 withdrawn, and DENIES as MOOT Intervenors’ motion to strike the same.

14 B. CROSS-MOTIONS FOR SUMMARY JUDGMENT

15 Plaintiff moves for summary judgment, arguing: (1) the EPA lacked authority to
 16 promulgate the 2013 TMDL; (2) the EPA promulgated the 2013 TMDL without satisfying
 17 a heightened standard for revising the 2003 TMDL; (3) the EPA failed to consider
 18 economic impact in promulgating the 2013 TMDL; (4) the 2013 TMDL is arbitrary and
 19 capricious in setting nitrogen and phosphorous limits; and (5) the EPA denied Plaintiff an
 20 opportunity to examine and comment upon critical aspects of the 2013 TMDL. Defendant
 21 and Intervenors oppose Plaintiff’s motion and move for summary judgment in turn.

22 1. Authority to Promulgate

23 By way of its first cause of action, Plaintiff alleges that the EPA acted beyond the
 24 scope of its statutory authority in promulgating both the 2003 and 2013 TMDLs. Citing 33
 25 U.S.C. § 1313(d)(2)(i), Plaintiff asserts that the EPA has authority to promulgate a TMDL
 26 only if it first disapproves a TMDL submitted by the State or the State has clearly and
 27 unambiguously decided not to submit *any* TMDLs for approval. Compl. ¶ 36. According
 28 to Plaintiff, California did not wholly abdicate its responsibility to promulgate TMDLs, as

1 evidenced by the State's submission of TMDLs addressing certain impaired waters. Id.
 2 ¶ 37. Plaintiff further asserts that the Heal the Bay Consent Decree was incapable of
 3 conferring upon the EPA authority that the agency lacked under the CWA. Id. ¶ 38.

4 In its motion for summary judgment, Plaintiff shifts focus to the Court's jurisdiction
 5 to enter the Heal the Bay Consent Decree in the first instance. Relying on Sierra Club v.
 6 Whitman, 268 F.3d 898 (9th Cir. 2001), and San Francisco Baykeeper v. Whitman, 297
 7 F.3d 877 (9th Cir. 2002), Plaintiff contends that the Court lacked jurisdiction to enter the
 8 Consent Decree because there was no prerequisite waiver of sovereign immunity. Plaintiff
 9 does not set forth arguments in support of this contention, but rather "incorporates . . . by
 10 reference the points and authorities set forth in both the moving and reply papers submitted
 11 in support of its Motion Under Federal Rules of Civil Procedure 12(h)(3) in the Heal the
 12 Bay case." Pl.'s Mot. for Summ. J. ("Pl.'s Mot.") at 5. Plaintiff further argues that, even if
 13 there had been a waiver of sovereign immunity in 1999, changed circumstances precluded a
 14 finding of waiver for entry of the Modification in 2010. Finally, Plaintiff argues that the
 15 Modification proposing a TMDL for "[BMI] bioassessment" did not authorize the EPA to
 16 promulgate a TMDL for nitrogen and phosphorous.

17 The Court is unpersuaded by Plaintiff's arguments. As a threshold matter, Plaintiff
 18 does not support its argument that this Court lacked subject matter jurisdiction in the Heal
 19 the Bay action; instead, Plaintiff incorporates by reference points and authorities set forth in
 20 its motion to dismiss the Heal the Bay action. The Court is not obliged to consider such
 21 arguments, which tend to circumvent the page limits set forth in the Civil Local Rules and
 22 this Court's Civil Standing Orders. See Swanson v. U.S. Forest Serv., 87 F.3d 339, 345
 23 (9th Cir. 1996) (the Federal Rules of Civil Procedure do not sanction "the incorporation of
 24 substantive material by reference"); see, e.g., Calence, LLC v. Dimension Data Holdings,
 25 PLC, 222 F. App'x 563, 566 (9th Cir. 2007) (the district court did not abuse its discretion in
 26 refusing to consider an argument that the plaintiff incorporated by reference from briefing
 27 on a prior motion). Nevertheless, the Court will briefly address Plaintiff's arguments
 28 regarding subject matter jurisdiction.

1 “Suits against the EPA, as against any agency of the United States, are barred by
 2 sovereign immunity, unless there has been a specific waiver of that immunity.” Sierra
 3 Club, 268 F.3d at 901. As is applicable here, Congress has waived immunity under 33
 4 U.S.C. § 1365(a)(2) for “suits alleging a failure of the Administrator to perform a non-
 5 discretionary duty.” Id. One such non-discretionary duty arises under the constructive
 6 submission doctrine, i.e., when a State’s failure to submit a TMDL triggers the EPA’s duty
 7 to promulgate the same. BayKeeper, 297 F.3d at 881. Here, Plaintiff argues that the EPA’s
 8 duty to act was not in fact triggered, and thus, that no waiver of sovereign immunity
 9 occurred. See Pl.’s Mot. at 6. Plaintiff’s understanding of subject matter jurisdiction is
 10 flawed, however, and its reliance on Sierra Club and BayKeeper is misplaced.

11 In Sierra Club, the plaintiffs filed suit against the EPA for failing to initiate an
 12 enforcement action. 268 F.3d at 900-01. Because an enforcement decision is wholly
 13 discretionary, the Ninth Circuit affirmed the district court’s dismissal for lack of
 14 jurisdiction. Id. Essentially, even if the allegations in Sierra Club proved meritorious, the
 15 plaintiffs in that case failed to allege a cause of action subject to judicial review under
 16 Section 1365(a)(2). The claims in the Heal the Bay action are of a different variety. The
 17 Heal the Bay plaintiffs filed suit against the EPA for failing to disapprove California’s non-
 18 submission of certain TMDLs and for failing to establish such TMDLs in the state’s stead.
 19 If triggered, these duties are mandatory. BayKeeper, 279 F.3d at 881. Consequently, and
 20 regardless of whether the plaintiffs in the Heal the Bay action ultimately would have
 21 prevailed on their claims, Section 1365(a)(2) vested this Court with jurisdiction. See Mata
 22 v. Lynch, 135 S. Ct. 2150, 2152 (2015) (“a court retains jurisdiction even if a litigant’s
 23 request for relief lacks merit”) (citing Steel Co. v. Citizens for Better Env’t, 523 U.S. 83,
 24 89-90 (1998) (“It is firmly established in our cases that the absence of a valid (as opposed
 25 to arguable) cause of action does not implicate subject-matter jurisdiction . . .”)).

26 Furthermore, contrary to Plaintiff’s suggestion, BayKeeper does not render the
 27 claims in the Heal the Bay action untenable, or even implausible. In BayKeeper, the
 28 plaintiffs alleged that the EPA had a mandatory duty to establish water pollution standards

1 for California because the State had failed to implement an adequate water quality control
 2 program. BayKeeper, 297 F.3d at 879. Noting that “California ha[d] submitted eighteen
 3 TMDLs and ha[d] established a schedule for completing its remaining TMDLs,” the Ninth
 4 Circuit held that such action “preclude[d] any finding that the state ha[d] ‘clearly and
 5 unambiguously’ decided not to submit any TMDL[s].” Id. at 883. The Court therefore
 6 held that the constructive submission doctrine did not apply. Id.

7 As a threshold matter, BayKeeper was decided in 2002, more than three years after
 8 this Court entered the Consent Decree in Heal the Bay. In deciding BayKeeper, the Ninth
 9 Circuit made “no determination on California’s past efforts and whether those efforts
 10 complied with the TMDL program.” 297 F.3d at 883. The Ninth Circuit explicitly stated,
 11 “Any declaration by this Court that EPA has been in violation of the CWA in the past
 12 would only serve as an advisory opinion because there is now no present controversy over
 13 past violations for which there is a remedy.” Id. Consequently, BayKeeper did not serve to
 14 preclude application of the constructive submission doctrine in prior actions.

15 Moreover, BayKeeper concerned California’s purported failure, and the EPA’s
 16 purported duty, to promulgate TMDLs for the *entire state*. See BayKeeper, 297 F.3d at 885
 17 (“the EPA’s duty under the CWA to establish TMDLs for *the State of California* has not
 18 been triggered”) (emphasis added); see also Sierra Club v. McLellan, No. 11-CV-1759-
 19 BJR, 2015 WL 1188522, at *6 (W.D. Wash. Mar. 16, 2015) (“The issue in BayKeeper was
 20 whether California’s failure to produce a significant number of TMDLs constituted a
 21 *programmatic* failure for the *entire state*.”) (emphasis in original). The Heal the Bay
 22 action, on the other hand, concerned California’s failure, and the EPA’s duty, to promulgate
 23 TMDLs for listed waterbody-pollutant pairings in the *Los Angeles Region*. BayKeeper did
 24 not foreclose application of the constructive submission doctrine in actions, like Heal the
 25 Bay, challenging a *partial* failure on the part of the state. See Sierra Club v. McLellan,
 26 2015 WL 1188522, at * 6 (finding that BayKeeper does not “foreclos[e] the application of
 27 the constructive submission doctrine to a particular pollutant or waterbody segment”)
 28 (citing Scott v. City of Hammond, 741 F.2d 992 (7th Cir. 1984) (holding that the EPA had

1 a nondiscretionary duty to promulgate a TMDL for Lake Michigan under the constructive
 2 submission doctrine)); see also Hayes v. Whitman, 264 F.3d 1017, 1023 (10th Cir. 2001)
 3 (“The constructive-submission theory turns on whether the state has determined not to
 4 submit a required TMDL for a given impaired waterbody.”)⁷

5 Having found that the Court had subject matter jurisdiction to enter the Consent
 6 Decree, the Court easily disposes of Plaintiff’s remaining arguments. Once the Consent
 7 Decree was entered, the Court retained jurisdiction to implement, enforce, and modify the
 8 same. See Jeff D. v. Kempthorne, 365 F.3d 844, 853 (9th Cir. 2004). Such authority arose
 9 out of both the terms of the Consent Decree itself, see Consent J. ¶ 22, Dkt. 25, Heal the
 10 Bay (“The Court retains jurisdiction for the purposes of . . . issuing such further orders or
 11 directions as may be necessary or appropriate to construe, implement, modify or enforce
 12 the terms of this Consent Decree . . .”), and the Court’s “inherent authority to . . . modify
 13 [such] a decree,” Nehmer v. U.S. Dep’t of Veterans Affairs, 494 F.3d 846, 860 (9th Cir.
 14 2007). See also United States v. Swift & Co., 286 U.S. 106, 114 (1932) (“Power to modify
 15 the decree was reserved by its very terms If the reservation had been omitted, power
 16 there still would be by force of principles inherent in the jurisdiction of the chancery.”)
 17 The Court therefore had jurisdiction to enter the Modification.

18 Finally, the Court finds that the Modification authorized a TMDL addressing
 19 nitrogen and phosphorus, even though the Modification did not specifically list those
 20 nutrients. California updated its 303(d) list to pair Malibu Creek and BMI bioassessments,
 21 AR 001309-16, and the Heal the Bay litigants sought to modify the Consent Decree to
 22 reflect the same. Thereafter, the EPA set revised seasonal numeric targets for nitrogen and
 23 phosphorous, after determining that these nutrients cause the identified BMI impairment.
 24 AR 000001-251. This approach is proper and permitted by the regulations implementing
 25 the CWA. See 40 C.F.R. §§ 130.7 (“TMDLs may be established using a pollutant-by-

26 ⁷ Because the Court finds Plaintiff’s arguments regarding subject matter jurisdiction
 27 in the Heal the Bay action unmeritorious, the Court declines to reach Defendant and
 28 Intervenors’ alternative arguments regarding the EPA’s independent authority to
 promulgate the Malibu Creek TMDLs in the absence of the Consent Decree.

1 pollutant or biomonitoring approach"); 130.25 (a)(2) (waterbodies are impaired if
 2 "biological information indicates that they do not attain and maintain water quality
 3 standards"); 130.21(a)(4) (a TMDL must be established for "the pollutant or pollutants
 4 causing [an identified] impairment"). In view of the foregoing, the Court finds that the
 5 EPA had authority to promulgate the 2013 TMDL.

6 Accordingly, as to the first cause of action, the Court DENIES summary judgment
 7 for Plaintiff and GRANTS summary judgment for Defendant and Intervenors.

8 **2. Revision Standard**

9 By way of its second cause of action, Plaintiff alleges that the EPA violated the
 10 CWA's provision regarding revised water quality standards. Specifically, Plaintiff argues
 11 that "[a] revised TMDL must meet higher standards," which the EPA failed to satisfy in
 12 promulgating the 2013 TMDL. Pl.'s Mot. at 8. According to Plaintiff, revision of a
 13 TMDL is authorized only if the revising agency can show that the revision "*will assure the*
 14 *attainment of [the applicable] water quality standard.*" *Id.* (emphasis in original) (quoting
 15 33 U.S.C. § 1313(d)(4)(A)). Relying on this language, Plaintiff suggests that TMDLs are
 16 not subject to revision unless the EPA can show with near certainty that a revised TMDL
 17 will achieve applicable water quality standards. Plaintiff asserts that the EPA has not
 18 shown that the Final TMDL will assure attainment, and thus, that the TMDL is improper.

19 Pursuant to 33 U.S.C. § 1313(d)(4)(A), "where the applicable water quality standard
 20 [for a WQLS] has not yet been attained, *any effluent limitation* based on a total maximum
 21 daily load or other waste load allocation . . . *may be revised only if* (i) *the cumulative effect*
 22 *of all such revised effluent limitations* based on such total maximum daily load or waste
 23 load allocation *will assure the attainment* of such water quality standard, or (ii) the
 24 designated use which is not being attained is removed in accordance with regulations
 25 established under this section." (Emphasis added). "In the case of effluent limitations
 26 established on the basis of section 1311(b)(1)(C) or section 1313(d) or (e) . . . , a permit
 27 may not be renewed, reissued, or modified to contain effluent limitations which are less
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1 stringent than the comparable effluent limitations in the previous permit except in
 2 compliance with section 1313(d)(4)” 33 U.S.C. § 1342(o).

3 As persuasively argued by Defendant, Plaintiff’s contention is fundamentally flawed
 4 because section 1313(d)(4)(A) does not impose a heightened standard for promulgation of a
 5 revised TMDL. Rather, section 1313(d)(4)(A) permits the relaxation of water quality-
 6 based effluent limitations provided that applicable water quality standards will still be
 7 attained. See Am. Iron & Steel Inst. v. EPA, 115 F.3d 979, 993, n.6 (D.C. Cir. 1997)
 8 (noting that section 1313(d)(4) will in most cases allow permitting authorities to issue
 9 relaxed permits that reflect new data) (citing Proposed Water Quality Guidance for the
 10 Great Lakes System, 58 Fed. Reg. 20802-01 at 20837 (explaining that section 1313(d)(4)
 11 provides “exceptions to the prohibition against relaxation of permit limits”)). With regard
 12 to TMDL revisions, regulators may establish a revised TMDL (like an initial TMDL) “at a
 13 level necessary to implement the applicable water quality standards.” 33 U.S.C. § 1313
 14 (d)(2)(C); see also AR 012004, EPA Guidance for Water Quality-Based Decisions: The
 15 TMDL Process (1991) (“If follow-up monitoring indicates that water quality standards are
 16 not or will not be met, a revised TMDL is required.”).

17 Accordingly, as to the second cause of action, the Court DENIES summary
 18 judgment for Plaintiff and GRANTS summary judgment for Defendant and Intervenors.

19 **3. Economic Impact**

20 Noting that California requires consideration of economic impact when establishing
 21 water quality standards, see Cal. Water Code § 13241 (factors to be considered by a
 22 regional board in establishing water quality objectives include “[e]conomic
 23 considerations”), Plaintiff argues that the EPA erred in failing to consider compliance costs
 24 when setting the 2013 TMDL’s nitrogen and phosphorous limits.

25 Defendant correctly notes that Plaintiff has not pled a claim regarding the EPA’s
 26 failure to consider economic impact. Summary judgment is available only on a claim
 27 alleged in the complaint. See Fed. R. Civ. Proc. 56(a) (the moving party must identify *each*
 28 *claim* upon which it seeks summary judgment); Heathman v. Portfolio Recovery Assocs.,

1 LLC, No. 12-CV-201-IEG RBB, 2013 WL 755674, at *6 (S.D. Cal., Feb. 27, 2013)
 2 (“Summary judgment is only available on claims or defenses (or parts thereof) actually
 3 alleged.”). Consequently, this claim is not properly before the Court. See Navajo Nation v.
 4 U.S. Forest Serv., 535 F.3d 1058, 1080 (9th Cir. 2008) (“where, as here, the complaint does
 5 not include the necessary factual allegations to state a claim, raising such claim in a
 6 summary judgment motion is insufficient to present the claim to the district court”).

7 Accordingly, as to Plaintiff’s contention regarding the EPA’s failure to consider
 8 economic impact, the Court DENIES Plaintiff’s motion for summary judgment.

9 **4. Abuse of Discretion**

10 By way of its fourth through eighth causes of action, Plaintiff alleges that the 2013
 11 TMDL constitutes an abuse of discretion. Presently, in moving for summary judgment,
 12 Plaintiff advances three arguments in support of its contention that the 2013 TMDL is
 13 arbitrary and capricious. First, Plaintiff argues that reductions in anthropogenic nitrogen
 14 and phosphorous levels may be ineffectual in light of naturally occurring nitrogen and
 15 phosphorous. Second, Plaintiff argues that the 2013 TMDL promotes all BMI even though
 16 one such species--the New Zealand mudsnail--is invasive. Third, Plaintiff argues that the
 17 EPA used an improper modeling methodology to conclude that BMI are impaired.

18 “The arbitrary and capricious standard is a deferential standard of review under
 19 which the agency’s action carries a presumption of regularity.” San Luis & Delta-Mendota
Water Auth., 776 F.3d at 994. “This traditional deference to the agency is at its highest
 20 where a court is reviewing an agency action that required a high level of technical
 21 expertise.” Id. (citing Marsh, 490 U.S. at 377; Baltimore Gas & Elec. Co. v. Nat. Res. Def.
Council, Inc., 462 U.S. 87, 103 (1983) (“When examining this kind of scientific
 22 determination . . . a reviewing court must generally be at its most deferential.”).
 23 Promulgation of a TMDL requires such technical expertise. See Am. Farm Bureau Fed’n
v. EPA, 984 F. Supp. 2d 289, 318 (M.D. Pa. 2013), aff’d, 792 F.3d 281 (3d Cir. 2015).

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1 **a. Newly Advanced Theories**

2 As a threshold matter, the Court notes that the arguments advanced in Plaintiff's
 3 motion for summary judgment do not correspond to the causes of action set forth in
 4 Plaintiff's complaint. Although Plaintiff contends that the Final TMDL is arbitrary and
 5 capricious in both its complaint and its summary judgment motion, the *bases* for its claims
 6 vary. Compare Compl. at ¶¶ 53-55 (failure to identify an "impairment"), ¶¶ 56-58 (failure
 7 to identify a "beneficial use"), ¶¶ 56-60 (inability to reduce nutrients due to naturally
 8 occurring sources), ¶¶ 61-64 (improper reliance on BMI as an "indicator" of water quality),
 9 and ¶¶ 65-67 (failure to justify prioritization of BMIs), with Pl.'s Mot. at 11-13 (inability to
 10 reduce nutrients due to naturally occurring sources), 13-15 (promotion of an invasive
 11 species), 15-18 (reliance on faulty modeling to compute levels of expected BMI).
 12 Generally, a party may not raise new theories for the first time on summary judgment. See
 13 Pickern v. Pier 1 Imports (U.S.), Inc., 457 F.3d 963, 968-69 (9th Cir. 2006) (allegations in a
 14 complaint must give the defendant fair notice of what the plaintiff's claim is and the
 15 *grounds* upon which it rests). Because Defendant and Intervenors attack Plaintiff's newly
 16 advanced theories on the merits, however, the Court will substantively address each of
 17 Plaintiff's new contentions.

18 **b. Natural Nutrient Sources**

19 The Malibu Creek Watershed drains an area of 109 square miles, and encompasses
 20 the somewhat unusual geology of the Monterey Formation--a natural composite of marine
 21 sediments. AR 000019, 000191, 000039-40. Drainage from the Monterey Formation
 22 contributes to elevated levels of minerals in Malibu Creek. AR 000040, 000098-100.

23 Plaintiff argues that reducing anthropogenic nitrogen and phosphorous levels may
 24 fail to reduce algae levels in Malibu Creek in light of naturally occurring sources of the
 25 nutrients. According to Plaintiff, without data quantifying background levels of nitrogen
 26 and phosphorous introduced by the Monterey Formation, "there is no certainty whether a
 27 reduction in algae will be achieved by the [2013] TMDL." Pl.'s Mot. at 13. Plaintiff
 28 contends that the 2013 TMDL is therefore arbitrary and capricious.

1 In promulgating the 2013 TMDL, the EPA undertook a thorough analysis of the
 2 Monterey Formation’s impact on background nutrient levels, otherwise referred to as
 3 “nutrient reference conditions.” See AR 000085-100. The EPA identified comparator
 4 reference sites situated inside and outside the Monterey Formation, and analyzed data
 5 points upstream and downstream of potentially significant nutrient sources along Malibu
 6 Creek. Id. Of particular note, Table 7-14 provides median nutrient concentrations for
 7 comparator sites and reference conditions for Malibu Creek. AR 000100. Based on such
 8 data, the EPA concluded that drainage from Monterey Formation “has little effect” on
 9 nitrogen levels, but “may result in somewhat elevated levels” of phosphorus. AR 000099.
 10 “[M]arkedly elevated” nutrient concentrations downstream of Plaintiff’s Facility, however,
 11 indicated that the Monterey Formation “is not the primary cause” of elevated phosphates.
 12 AR 000097. Specifically, although average phosphate concentrations were elevated four-
 13 fold at sites draining the Monterey Formation, such concentrations were elevated twenty-
 14 fold at sites downstream of the Facility’s discharge. AR 000097-99. Finally, in evaluating
 15 any link between elevated nutrient levels and BMI impairment, the EPA reasoned that
 16 BMI’s likely adaptation to reference nutrient concentrations “argues against natural
 17 geology being a primary [stressor].” AR 000207.

18 In view of the foregoing, Plaintiff’s assertion that the EPA made “absolutely no
 19 effort” to quantify natural levels of nitrogen and phosphorous in Malibu Creek is simply
 20 specious. See Pl.’s Mot. at 13. The record confirms that the EPA made considerable
 21 efforts to quantify background levels of these nutrients, and used that data to “define the
 22 minimum level of nutrient enrichment that is attainable in the watershed.” AR 000098.
 23 The EPA then reasonably concluded that natural geology is not the primary cause of
 24 nutrient loading or BMI impairment. Nothing more is required. See San Luis & Delta-
Mendota Water Auth., 776 F.3d at 994 (courts sustain agency action if the agency
 25 articulated a rational connection between the facts found and the conclusions made).
 26 Therefore, the Court finds that the 2013 TMDL is not arbitrary or capricious in its analysis
 27 of background nutrient levels.

c. Invasive Species

In drafting the 2013 TMDL, the EPA identified a number of potential stressors that could lead to degraded BMI assemblage. AR 000175. One such stressor is competition from invasive species, particularly, the New Zealand mudsnail. AR 000177-78.

Plaintiff argues that the 2013 TMDL promotes BMI “without distinguishing” between those species that are “helpful to the environment” and those species, like the New Zealand mudsnail, that “will damage it.” Pl.’s Mot. at 15. According to Plaintiff, “[b]y promoting [BMI] that would more properly be classed as pollutants, the 2013 TMDL is arbitrary and capricious.” Id.

In promulgating the 2013 TMDL, the EPA recognized that the New Zealand mudsnail is an invasive species, and that invasive species generally “impair native ecosystems by outcompeting native species for resources such as food or habitat.” AR 000162, 000188. After considering available studies and data, see AR 001877, 002052, 004326, including mudsnail density and total BMI richness and diversity, the EPA concluded: “Overall, the evidence to date was inconsistent for indicating the New Zealand mudsnails as a primary cause of biological impairment. Although New Zealand mudsnails are present and growing in abundance in the Malibu Creek Watershed, data were limited and did not confirm negative interactions with the native [BMI].” AR 000188. Even so, the EPA recommended “[f]urther monitoring and examination.” AR 000162.

Contrary to Plaintiff's assertion, the EPA did *not* appear "disinterested in [the mudsnail] or its impact on the creek or on other [BMI]." Pl.'s Mot. at 14.⁸ The EPA evaluated available data, recommended further monitoring of the mudsnails, and rationally

⁸ In support of the proposition that the EPA was “disinterested” in the mudsnail, Plaintiff quotes the following portion of the 2013 TMDL: “. . . data are not available describing their locations or abundances. Therefore, no evaluation of their potential impact on the [BMI] assemblage was performed.” Pl.’s Mot. at 14 (quoting AR 000188). Plaintiff’s selective quote is misleading. The 2013 TMDL states, in full: “Although *other invasive species* exist in the watershed (*e.g., red swamp crayfish, bullfrogs, and mosquitofish*), data are not available describing *their* locations and abundances.” AR 000188 (emphasis added). This language appears following the portion of the 2013 TMDL that specifically addresses available data regarding the mudsnails and evaluates their impact on native BMI. The Court finds Plaintiff’s misrepresentation of the record disconcerting.

1 implemented measures to address a *known* impairment--nutrient loading. Again, no more is
 2 required. See San Luis & Delta-Mendota Water Auth., 776 F.3d at 994. The 2013 TMDL
 3 does not purport to “promote” the mudsnail, and Plaintiff fails to identify any evidence to
 4 support the assertion that the 2013 TMDL will affirmatively facilitate its expansion.
 5 Furthermore, the Court finds that the EPA rationally took measures to protect native BMI
 6 species from chemical impairments, even if improving overall water quality will have the
 7 incidental effect of benefiting an invasive species. If necessary, the EPA and/or the State
 8 may take other measures to address non-native species. See Dioxin/Organochlorine Center
 9 v. Clarke, 57 F.3d 1517 (9th Cir. 1995) (“Nothing in the Clean Water Act requires TMDLs
 10 to be issued for all pollutants at once.”). Consequently, the Court finds nothing arbitrary or
 11 capricious about the 2013 TMDL’s consideration of the invasive New Zealand mudsnail.

12 **d. Improper Methodology**

13 The EPA used two bioassessment modeling tools--the Southern California Index of
 14 Biotic Integrity (“SC-IBI”) and the California Stream Condition Indicator (“CSCI”)--to
 15 evaluate BMI community conditions in Malibu Creek. AR 000106-08. In preparing the
 16 draft TMDL, the EPA utilized only the SC-IBI model; at that time, the CSCI model was not
 17 yet available. AR 000839-40. During the comment period, certain commenters questioned
 18 the applicability of the SC-IBI model given Malibu Creek’s somewhat unusual geology.
 19 AR 000838. The EPA determined that the SC-IBI model “is applicable as a bioassessment
 20 tool for this watershed.” AR 000107. Nevertheless, in promulgating the Final TMDL, the
 21 EPA also utilized the CSCI model, which California had recently developed “to achieve
 22 statewide consistency and site-specificity” in bioassessments. Id. The CSCI model is
 23 similar to the SC-IBI model, but accounts for site-specific variability throughout the state,
 24 factoring in local watershed characteristics such as geology. AR 000107, 000840. The
 25 CSCI results confirmed the SC-IBI results, showing comparable levels of BMI impairment
 26 in Malibu Creek. AR 000105-07, 000884 (“the results from these CSCI bioscores are
 27 comparable to the SC-IBI and demonstrate the impairment of [BMI] community in the
 28 Malibu Creek main stem and tributaries”).

1 Plaintiff challenges the EPA’s use of the CSCI model, arguing that the TMDL’s
 2 principal author, Dr. Cindy Lin (“Dr. Lin”), “did not claim expertise in computer
 3 modeling,” and that the 2013 TMDL “contained no foundation for the use of the CSCI
 4 model.” Pl.’s Mot. at 16. Plaintiff further asserts that the CSCI model, which is designed
 5 for perennial streams, is the “wrong model” because Malibu Creek is ephemeral. *Id.* at 17.
 6 In light of these purported modeling flaws, Plaintiff contends that the 2013 TMDL lacks
 7 competent evidence of BMI impairment.

8 “[A]dministrative agencies have undoubted power to use predictive models.” Small
 9 Refiner Lead Phase-Down Task Force v. EPA, 705 F.2d 506, 535 (D.C. Cir. 1983). As
 10 stated above, the deference afforded to an agency is “at its highest where a court is
 11 reviewing an agency action that required a high level of technical expertise.” San Luis &
 12 Delta-Mendota Water Auth., 776 F.3d at 994. As part of this deference, courts afford
 13 agencies “discretion to choose among scientific models,” and “reject an agency’s choice of
 14 a scientific model only when the model bears no rational relationship to the characteristics
 15 of the data to which it is applied.” *Id.* (internal quotations omitted).

16 Here, as a threshold matter, Defendant correctly notes that *Plaintiff’s* first technical
 17 comment on the draft TMDL was to *recommend* that the EPA use the CSCI for “all
 18 calculations.” See AR 000432. The EPA adopted that recommendation, and utilized both
 19 the SC-IBI and the CSCI bioscores in the Final TMDL. See AR 000839-40. Plaintiff’s
 20 affirmative advocacy of the CSCI model during the comment period seemingly forecloses
 21 its current challenge to the use of that model. See S. Coast Air Quality Mgmt. Dist. v.
 22 EPA, 472 F.3d 882, 892 (D.C. Cir. 2006) (“commenters may not reverse course after their
 23 preferred approach is adopted by the agency”). In any event, Plaintiff fails to demonstrate
 24 that the CSCI model was an unsuitable assessment tool in this action.

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1 First, Dr. Lin's *personal* expertise in creating and selecting models is immaterial.⁹
 2 Agencies, like the EPA, are generally experts in their respective fields, and an agency's
 3 "choice of which . . . model produces the most reliable results falls within the agency's
 4 expertise." U.S. W. Commc'ns, Inc. v. Jennings, 304 F.3d 950, 959 (9th Cir. 2002). Here,
 5 the EPA's decision to utilize the CSCI model appears reasonable given that California
 6 developed the model as "a primary tool to assess biological condition in the state."
 7 AR 000236. With regard to application, Plaintiff acknowledges that "Dr. Lin can use a
 8 model," and fails to identify any particular flaws in her usage of the CSCI model. Pl.'s
 9 Mot. at 16. Plaintiff has therefore failed to demonstrate a lack of expertise.

10 Second, the administrative record provides ample foundation for the EPA's use of
 11 the CSCI model. The Final TMDL thoroughly describes the development, methodology,
 12 and application of the model. See AR 000107-08, 000120. As the Final TMDL explains,
 13 the CSCI model uses a "predictive modeling approach" that compares observed BMI,
 14 which is the number of observed taxa at a site, and expected BMI, which is a function of
 15 physical habitat predictors. AR 000107-08. "The model can be applied to any site, and the
 16 differences between the expected and observed assemblages or metric scores indicate the
 17 site impairment." Id. The Final TMDL also includes a technical appendix dedicated to
 18 "CSCI Analyses," wherein the EPA detailed its efforts to ensure accurate bioscore results.
 19 Appendix D, AR 000304-317. As set forth therein, the EPA collaborated with the CSCI
 20 Science Team to calculate bioscores, evaluate the results, and ensure appropriate data
 21 interpretation. AR 000305. Thus, the EPA satisfied its duty to provide "a specific, detailed
 22 explanation of why its [bioassessment] models *do* yield reliable data." Nw. Coal for
 23 Alternatives to Pesticides (NCAP) v. EPA, 544 F.3d 1043, 1049-50 (9th Cir. 2008).

24 Lastly, Plaintiff's contention that the EPA used the "wrong model" is wholly
 25 unsupported. Plaintiff cites the administrative record for the proposition that Malibu Creek

26 ⁹ Dr. Lin did not author the CSCI model. The "CSCI Science Team" that authored
 27 the model was comprised of experts from the Department of Fish and Wildlife, the
 28 Southern California Coastal Water Research Project, and the United States Geological
 Survey. AR 000236.

1 is an ephemeral stream. See Pl.'s Mot. at 17 (quoting AR 000840). However, the record
 2 provides that "most of the watersheds" in "the Southern California regions" "are
 3 intermittent or ephemeral in nature." AR 000840. It does not describe *Malibu Creek*, in
 4 particular, as *ephemeral*. In any event, even if the Court accepts Plaintiff's characterization
 5 of Malibu Creek, it does not follow that the CSCI model is inapt. During the draft TMDL
 6 comment period, Plaintiff questioned whether bioassessment tools "developed for perennial
 7 wadeable streams" are appropriate for use in Malibu Creek. AR 000461. The EPA
 8 explained that the wadeable stream method--used to collect the data for both Malibu Creek
 9 and the CSCI model reference sites--is "applicable in wadeable streams and d[oes] not
 10 differentiate between non-perennial or perennial streams." AR 000896; see also 000858.
 11 In collaboration with the CSCI Science Team, the EPA also specifically calibrated the
 12 CSCI model for Malibu Creek. See AR 000120, 000311. Applying due deference, the
 13 Court finds that the EPA reasonably included the CSCI model in its bioassessment analysis.

14 **e. Abandoned Causes of Action**

15 As discussed above, the causes of action Plaintiff raised in its complaint and the
 16 arguments set forth in its motion for summary judgment diverge. Defendant and
 17 Intervenors move for summary judgment on the claims Plaintiff failed to address in its
 18 motion, arguing that Plaintiff has abandoned the same. Specifically, Plaintiff does not
 19 move for summary judgment on its fourth, fifth, seventh, eighth, or ninth causes of action.
 20 Plaintiff does not oppose a grant of summary judgment in favor of Defendant and
 21 Intervenors with regard to these claims; nor does Plaintiff otherwise address the issue of
 22 abandonment in its responsive briefs. The Court therefore deems the claims abandoned and
 23 waived. See *Desert Protective Council v. U.S. Dep't of the Interior*, 927 F. Supp. 2d 949,
 24 977 (S.D. Cal. 2013) aff'd, No. 13-55561, 2015 WL 7292969 (9th Cir. Nov. 19, 2015).¹⁰
 25

26 ¹⁰ Plaintiff's ninth cause of action alleges that the 2013 TMDL is improper because
 27 its purpose is to enhance Malibu Creek. Compl. ¶¶ 69-70. Although this claim appears on
 28 its face to challenge the scope of the CWA's legal mandate, it essentially challenges the
 EPA's exercise of discretion in setting nitrogen and phosphorous limits. Thus, the Court
 includes the ninth cause of action in its discussion of claims alleging an abuse of discretion.

f. Conclusion

Accordingly, as to the fourth through ninth causes of action, the Court DENIES summary judgment for Plaintiff and GRANTS summary judgment for Defendant and Intervenors.

5. Notice and Comment

By way of its third cause of action, Plaintiff alleges that the EPA “failed to allow comments on the entire TMDL that was promulgated.” Compl. ¶ 47. Initially, Plaintiff alleged that the EPA denied Plaintiff the opportunity to examine and comment upon a report authored by Heal the Bay. In its motion for summary judgment, however, Plaintiff argues that the EPA denied Plaintiff the opportunity to examine and comment upon raw BMI data collected by Heal the Bay, as well as the CSCI model and input data files. Pl.’s Mot. at 19. Plaintiff asserts that, without access to the raw data, CSCI model, and input files, it was unable to test the EPA’s data entry or the accuracy of the CSCI bioscores.

An agency is required to provide notice of its proposed rulemaking and an opportunity for interested persons to comment. 5 U.S.C. § 553.¹¹ “Integral to an agency’s notice requirement is its duty to identify and make available technical studies and data that it has employed in reaching the decisions to propose particular rules.” Kern Cty. Farm Bureau, 450 F.3d at 1076 (quotation omitted). “An agency commits serious procedural error when it fails to reveal portions of the technical basis for a proposed rule in time to allow for meaningful commentary.” Id. (quotation omitted). “[W]ithout reopening the comment period,” however, an agency “may use ‘supplementary data, unavailable during the notice and comment period, that expands on and confirms information contained in the proposed rulemaking and addresses alleged deficiencies in the pre-existing data, so long as no prejudice is shown.’” Id.

¹¹ Defendant asserts, “A TMDL is an ‘informal adjudication,’ not a ‘rule,’ and as such does not require any particular notice and comment procedure.” Def.’s Mot. at 23, n.12. Regardless of whether the APA requires notice and comment in this context, the EPA itself has adopted such procedures. See 40 C.F.R. § 130.7 (when identifying WQLSs and establishing TMDLs, “[t]he Regional Administrator shall promptly issue a public notice seeking comment on such listing and loadings”).

1 Here, Plaintiff fails to show that procedural error occurred, or assuming such error,
 2 that prejudice resulted. See Cal. Wilderness Coal. v. U.S. Dep’t of Energy, 631 F.3d 1072,
 3 1090 (9th Cir. 2011) (“[F]ailure to disclose information for public comment is subject to
 4 the rule of prejudicial error.”); see also 5 U.S.C. § 706 (in reviewing agency action pursuant
 5 to the APA, “due account shall be taken of the rule of prejudicial error”). Regarding raw
 6 data, Plaintiff *now* acknowledges that it received the data directly from Heal the Bay. Pl.’s
 7 Opp’n to Def.’s Mot. (“Pl.’s Opp’n”) at 14, Dkt. 77 (“Plaintiff obtained raw data from Heal
 8 the Bay. . . .” (emphasis in original)). Plaintiff even commented on Heal the Bay’s raw data
 9 during the comment period. See, e.g., AR 000463. Thus, assuming the EPA erred in
 10 failing to provide the data, such failure “was harmless as to [Plaintiff] because [Plaintiff]
 11 had the [data] in [its] possession” Cal. Communities Against Toxics v. EPA, 688 F.3d
 12 989, 993 (9th Cir. 2012) (no harm is suffered “where a party has actual notice and was able
 13 to submit its views to the agency prior to the challenged action”).¹²

14 Regarding the CSCI model and input files, only the *SC-IBI* model was available
 15 when the EPA authored the draft TMDL; thus, the Court finds that the EPA did not have
 16 cause to provide any *CSCI* documents for initial comment. The Court further finds that the
 17 EPA did not err in failing to reopen the comment period after supplementing the Final
 18 TMDL with the CSCI bioscores. See e.g., Bear Valley Mut. Water Co. v. Jewell, 790 F.3d
 19 977, 993 (9th Cir. 2015) (holding that the agency did not err in supplementing a final rule
 20 with studies that “expand[ed] upon and confirm[ed] the data used to support . . . the
 21 [p]roposed [r]ule”). In the draft TMDL, “the SC-IBI results . . . show[ed] that the [BMI]
 22 community in Malibu Creek . . . is impaired.” AR 000135. In the final TMDL, the CSCI
 23 results merely expanded upon and confirmed the SC-IBI results. See AR 000107 (the SC-

24 ¹² Plaintiff’s motion for summary judgment asserted, “The raw data was withheld
 25 from Plaintiff.” Pl.’s Mot. at 20. Additionally, Plaintiff made further assertions implying
 26 that *neither* the EPA *nor* Heal the Bay *ever* provided this data. See id. at 20 (“Plaintiff
 27 immediately requested a copy of the raw data from Heal the Bay. Heal the Bay declined to
 28 provide the data.”) Plaintiff now admits that it received the raw data from Heal the Bay,
 but insists that receipt of the data from any source other than the EPA is irrelevant. Pl.’s
 Opp’n at 14. Despite Plaintiff’s effort to recast this argument, the Court finds Plaintiff’s
 prior assertions to be disingenuous.

1 IBI results were “complemented by” the CSCI results); AR 000840 (the CSCI results
 2 “confirm[ed] conclusions observed by the SC-IBI results”); AR 000844 (the EPA “included
 3 the CSCI approach as a second line of evidence,” which supported the “conclusion that the
 4 benthic community is impaired”). Hence, reopening the comment period was unnecessary.

5 Finally, even if the EPA erred in failing to reopen the comment period, Plaintiff does
 6 not demonstrate prejudice. Plaintiff’s alleged harm arises out of its inability to test the
 7 EPA’s data entry. See Pl.’s Opp’n at 14. Although disclosure of underlying data is
 8 required in order to facilitate *meaningful* comment, this requirement is not so stringent as to
 9 afford commenters the right to inspect *every facet* of the EPA’s work, such as routine data
 10 entry. In any event, Plaintiff now has access to the data at issue, see AR Supp. 000919, but
 11 fails to identify any errors. See Cal. Wilderness Coal, 631 F.3d at 1090 (error is harmless if
 12 it had no bearing on the procedure used or the substance of the decision reached). This is
 13 unsurprising, given that the CSCI Science Team “independently calculated a subset of the
 14 bioscores,” and consulted with the EPA to ensure accurate results. AR 000120.

15 Accordingly, as to the third cause of action, the Court DENIES summary judgment
 16 for Plaintiff and GRANTS summary judgment for Defendant and Intervenors.

17 **IV. CONCLUSION**

18 For the reasons stated above, IT IS HEREBY ORDERED THAT:

19 1. Intervenors’ Motion to Strike Extra-Record Evidence, or alternatively, for
 20 Leave to Submit Responsive Extra-Record Evidence, Dkt. 76, is DENIED as MOOT.

21 2. Plaintiff’s Motion for Summary Judgment, Dkt. 65, is DENIED.

22 3. Defendant’s Cross-Motion for Summary Judgment, Dkt. 74, is GRANTED.

23 4. Intervenors’ Cross-Motion for Summary Judgment, Dkt. 75, is GRANTED.

24 5. The Clerk of the Court shall CLOSE this case.

25 IT IS SO ORDERED.

26 Dated: 2/1/16


 SAUNDRA BROWN ARMSTRONG
 Senior United States District Judge